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decoder can be implemented with a transmitter designed in accordance with the disclosure provided in U.S. Patent No. 6,091,940, titled, "Method and System for Frequency Up-Conversion," incorporated herein by reference in its entirety.

In the Abstract:

Please substitute the following Abstract, which is also reproduced on a separate page filed herewith, for the pending Abstract:

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--A method and system for directly down-converting FM signals to demodulated baseband information signals that can be used to directly down-convert analog FM signals and digital FM signals to demodulated baseband information signals. In an embodiment, the method includes aliasing an FM signal at an aliasing rate substantially equal to the frequency of the FM signal or substantially equal to a sub-harmonic thereof; adjusting the aliasing rate in accordance with frequency changes on the FM signal to maintain the aliasing rate substantially equal to the frequency of the FM signal, and outputting a demodulated baseband information signal. The method optionally includes compensating for phase delays and/or other characteristics of the loop in order to maintain bandwidth and stability for the loop.--
